



MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Weather Shield Manufacturing Inc.
One Weather Shield Plaza
Medford, WI 54451-0309

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "1604" Alum Clad Wood Transom Windows -LMI

APPROVAL DOCUMENT: Drawing No. 1651 Rev A, titled "1604 Aluminum Clad Transom Window", sheets 1 through 3 of 3, dated 05/11/09 and last revised on APR 16, 2014, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation: 4-1/2" deep min wood buck required.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 11-1108.10 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.



NOA No. 14-0513.06
Expiration Date: March 10, 2020
Approval Date: September 13, 2014
Page 1

8
9/14/14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (Submitted under files #11-1108.10/# 09-0901.10)
2. Drawing No. **1651 Rev A**, titled "1604 Aluminum Clad Transom Window", sheets 1 through 3 of 3, dated 05/11/09 and last revised on APR 16, 2014, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS (Submitted under files #11-1108.10/# 09-0901.10)

1. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with marked-up drawings and installation diagram of Wood sidelite/transom window, prepared by Stork Twin City Testing, Corp., Test Reports No(s): **180-7762.1, .2, .3, .4 & .5**, dated 06/10/09, all signed and sealed by Thomas A. Kolden, P.E.

C. CALCULATIONS

1. Anchor verification calculations dated APR 16, 2014 per FBC 2014 per NDS 2012, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed & sealed by Warren W. Schaefer, P.E.
2. Anchor verification calculations per FBC 2007 dated 08-25-09 and per FBC 2010 dated Jan 12, 2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. (Submitted under files #11-1108.10/# 09-0901.10)
3. Glazing complies with ASTM E-1300-02 & 2004

D. QUALITY ASSURANCE

1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **12-1231.09** issued to Eastman Chemical Co (MA) former Solutia Inc. for "**Saflex Clear or colored interlayer**", expiring on May 21, 2016.

F. STATEMENTS

1. Statement letter of conformance to FBC 2014(**5th Edition**) and letter of no financial interest, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated April 16, 2014, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter, prepared by W. W. Schaefer Engineering & Consulting, P.A. dated April 16, 2014, of NOA Drawings and calculation have been reviewed to 2014 FBC and found compliant and that No change to existing NOA documents are required, other than addition of Crete flex con screw and updating glass interlayer, signed by Warren W. Schaefer, P.E.
3. Statement letters of conformance to FBC 2010, dated NOV 02, 2011, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P.E. (submitted under file #11-1108.10).
4. Statement letters of conformance to FBC 2007, dated 08-25-09, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P.E. (file #09-0901.10).
5. Lab compliance statements as a part of the above test reports.
6. Addendum letter dtd 01/19/10, issued by Stork Twin City, signed & sealed by Tom Kolden, P.E.

G. OTHER

1. This NOA **revises & renews** NOA # **11-1108.10**, expired on March 10, 2020.
2. Test proposal # **07-3820** dated 12/12/07, approved by BCCO.



Ishaq I. Chanda, P.E.

Product Control Examiner

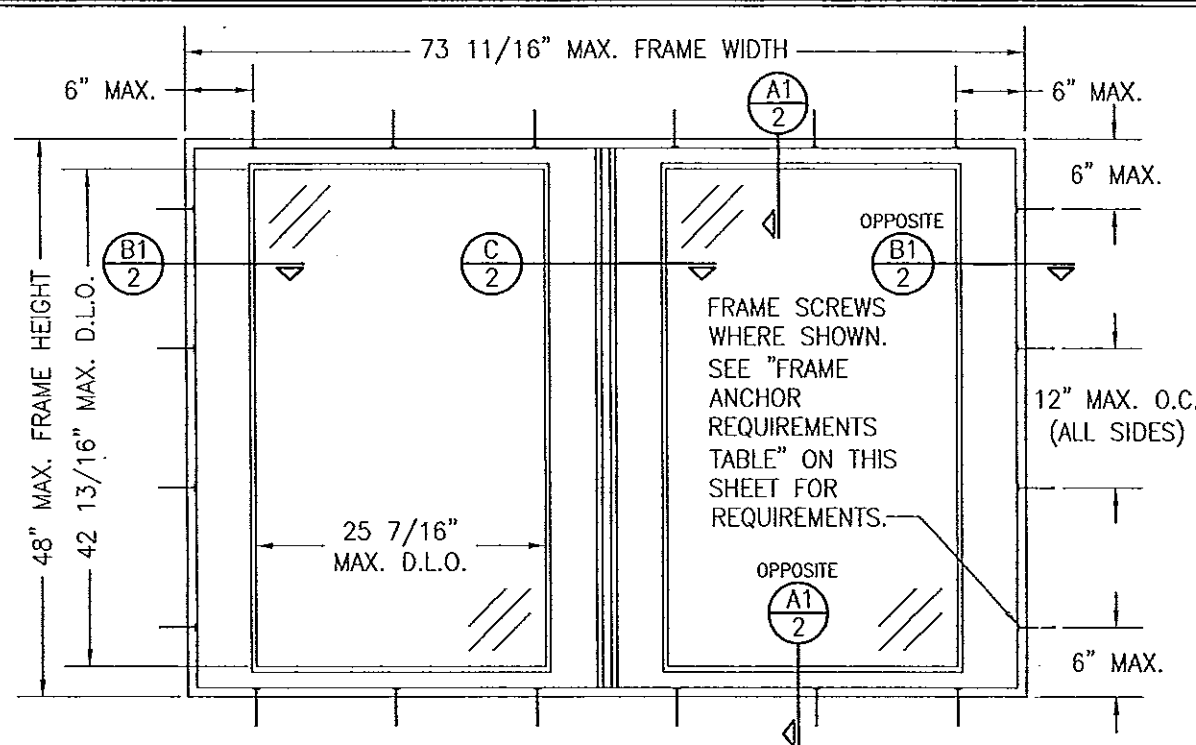
NOA No. 14-0513.06

Expiration Date: March 10, 2020

Approval Date: September 13, 2014

GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

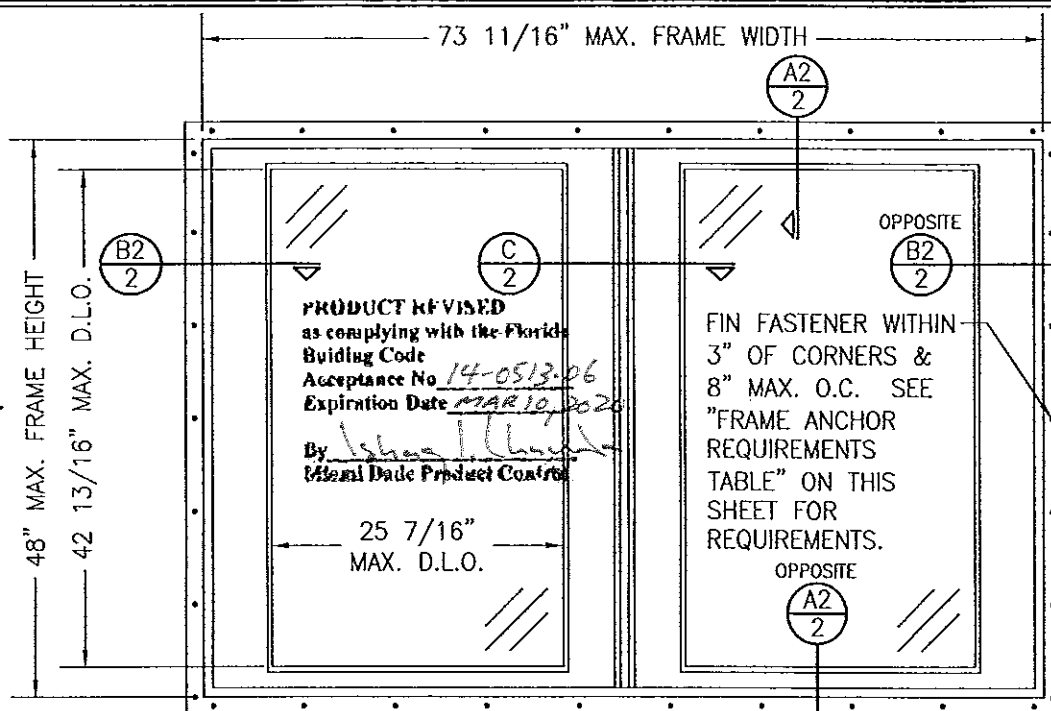


EXTERIOR ELEVATION:
DOUBLE SASH WINDOW

SCALE: 3/4" = 1'-0"

(FRAME SCREW MOUNT CONDITION)

ALLOWABLE DESIGN PRESSURE
+65/-85 PSF



EXTERIOR ELEVATION:
DOUBLE SASH WINDOW

SCALE: 3/4" = 1'-0"

(NAIL FIN MOUNT CONDITION)

CORNER CONSTRUCTION:

FRAME CORNERS: MEMBERS ARE RABBETED, BUTTED & SECURED WITH (3) THREE NO. 6 X 2" WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SILICONE SEALANT.

SASH CORNERS: MEMBERS ARE BUTTED TOGETHER, JOINED WITH (1) ONE 3/4" X 3" WOOD DOWEL PER CORNER. CORNERS ARE SEALED WITH WOOD GLUE THAT SECURES THE DOWEL.

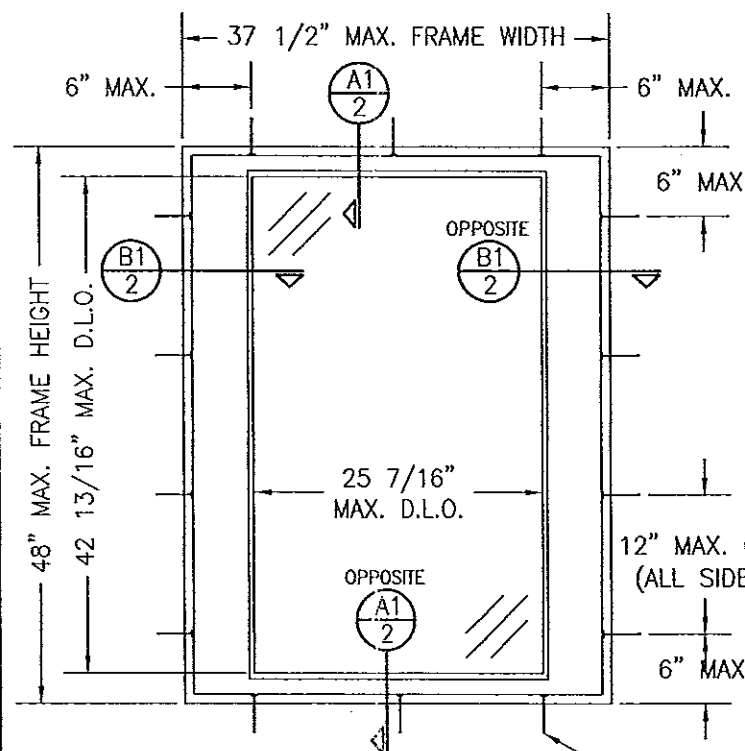
FRAME CLADDING CORNERS: CLADDING IS MITERED TOGETHER & JOINED WITH (1) ONE NO. 6 X 1 1/8" PFH SS SCREW PER CORNER. CORNERS ARE SEALED WITH SILICONE SEALANT.

SASH CLADDING: CLADDING IS SQUARE CUT & SECURED TO THE SASH. CORNERS ARE SEALED WITH SILICONE SEALANT.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME & NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).
- (2) WOOD BUCKS MAY BE RIPPED DOWN TO 4 1/2" TO MEET JAMB DEPTH

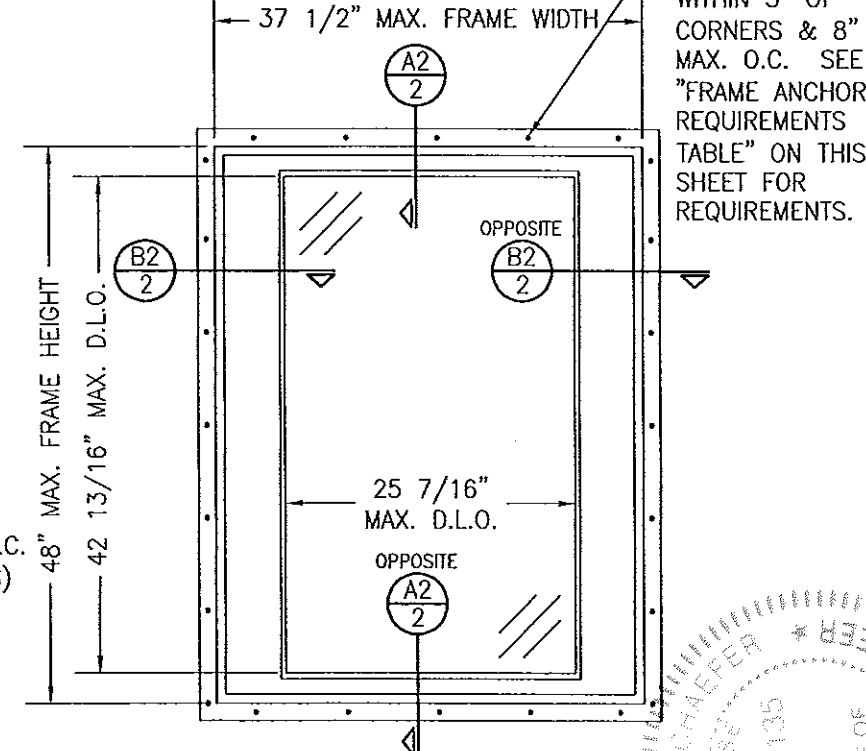


EXTERIOR ELEVATION:
SINGLE SASH WINDOW

SCALE: 3/4" = 1'-0"

(FRAME SCREW MOUNT CONDITION)

FRAME SCREWS
WHERE SHOWN. SEE
"FRAME ANCHOR
REQUIREMENTS
TABLE" ON THIS
SHEET FOR
REQUIREMENTS.



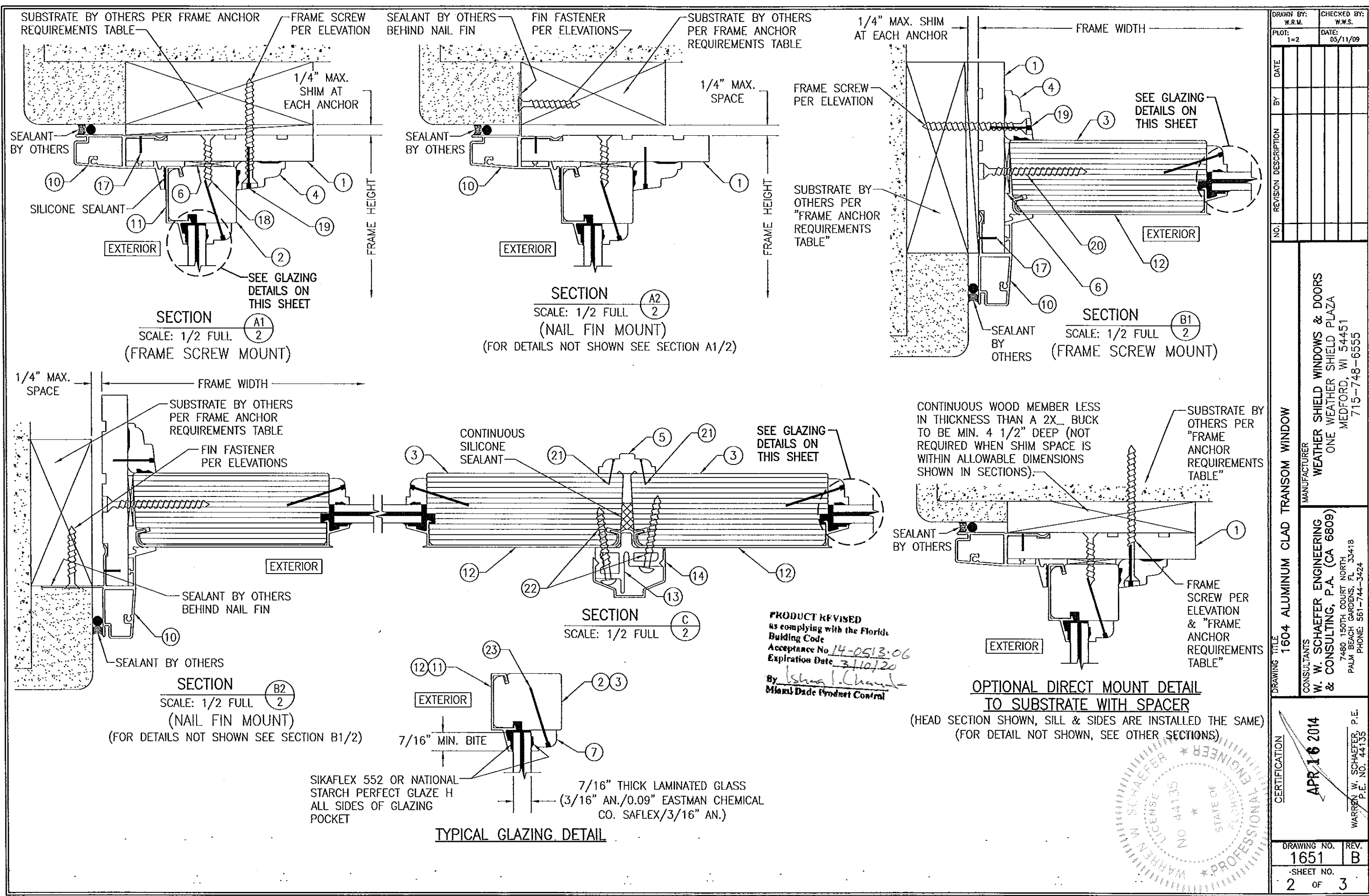
EXTERIOR ELEVATION:
SINGLE SASH WINDOW

SCALE: 3/4" = 1'-0"

(NAIL FIN MOUNT CONDITION)

FIN FASTENER
WITHIN 3" OF
CORNERS & 8"
MAX. O.C. SEE
"FRAME ANCHOR
REQUIREMENTS
TABLE" ON THIS
SHEET FOR
REQUIREMENTS.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 05/11/09	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE CONSULTANTS ADDRESS	W.W.S.	11/02/11
B1	UPDATE TO CURRENT CODE	W.W.S.	04/15/14
1604 ALUMINUM CLAD TRANSOM WINDOW MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 CERTIFICATION: APR 16 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 DRAWING NO. 1651 SHEET NO. 1 OF 3			

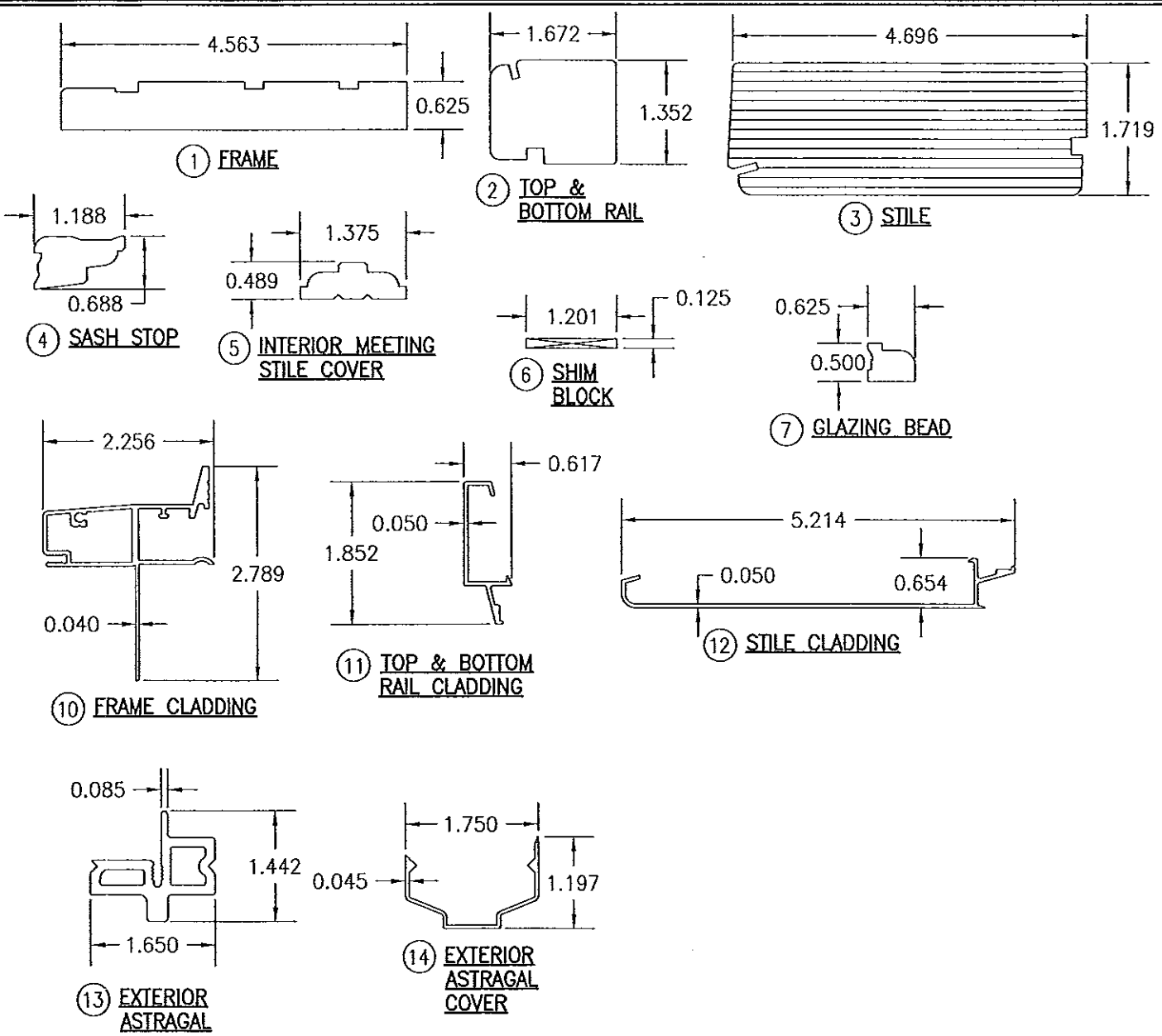


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/11/09	
DATE			
BY			
REVISION DESCRIPTION			
NO.			
DRAWING TITLE: 1604 ALUMINUM CLAD TRANSOM WINDOW MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: APR 16 2014 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1651		REV. B	
SHEET NO. 2		OF 3	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME (TRANSOM WINDOW)	WOOD (FINGER JOINTED)
2	HEAD & SILL RAIL	WOOD
3	STILE	MICROLLAM LVL BY WEYERHAEUSER (PER CURRENT N.O.A.) (E MIN.=1,900,000 PSI; Fb MIN.=2,600 PSI)
4	SASH STOP	WOOD (FINGER JOINTED)
5	INTERIOR MEETING STILE COVER	WOOD
6	SHIM BLOCK	WOOD
7	GLAZING BEAD	WOOD
10	FRAME CLADDING	6063-T5 ALUMINUM
11	TOP & BOTTOM RAIL CLADDING	6063-T5 ALUMINUM
12	STILE CLADDING	6063-T5 ALUMINUM
13	EXTERIOR ASTRAGAL	6063-T5 ALUMINUM
14	EXTERIOR ASTRAGAL COVER	6063-T5 ALUMINUM
FASTENERS		
17	18 GA. X 1/2" X 1/2" STAPLE	WITHIN 2" FROM ENDS & 7-9" O.C.
18	NO. 8 X 1 1/4" WOOD SCREW	WITHIN 6" FROM ENDS & 10" O.C.
19	F16 X 1" BRAD NAIL	WITHIN 2" FROM ENDS & 9" O.C.
20	NO. 8 X 2 1/2" WOOD SCREW	WITHIN 6" FROM ENDS & 10" O.C.
21	18 GA. X 1/2" X 1" STAPLE (2 ROWS)	WITHIN 2" FROM ENDS & 8" O.C.
22	NO. 8 X 1 3/4" P.H. WOOD SCREW (2 ROWS)	WITHIN 2" FROM ENDS & 8" O.C.
23	F16 X 1 1/2" BRAD NAIL	WITHIN 2" FROM CORNERS & 12" O.C.

NOTE: WOOD USED IN TESTING WAS PONDEROSA PINE WITH A SPECIFIC GRAVITY OF G = 0.43 AND A MODULUS OF ELASTICITY OF E = 1,200,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED WEATHER SHIELD TO SELECT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 14-0513-06
Expiration Date MAR 19, 2020
By: Ismael L. Chant
Miami Dade Product Control



DRAWN BY: W.R.W.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/11/09	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 1604 ALUMINUM CLAD TRANSOM WINDOW			
CONSULTANTS		MANUFACTURER	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		WEATHER SHIELD WINDOWS & DOORS	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION		APR 16 2014	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1651		REV. B	
SHEET NO. 3		OF 3	

